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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,184	11/25/2003	Peter T. Kazlas	H-360	1183
²⁶²⁴⁵ DAVID J COL	7590 06/21/200 .F.	7	EXAMINER	
E INK CORPO	RATION	NGUYEN, KHIEM D		
733 CONCORD AVE CAMBRIDGE, MA 02138-1002			ART UNIT	PAPER NUMBER
<u> </u>			2823	
			MAIL DATE	DELIVERY MODE
			06/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

. —		Application No.	Applicant(s)			
		10/707,184	KAZLAS ET AL.			
•	Office Action Summary	Examiner	Art Unit			
		Khiem D. Nguyen	2823			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
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Status						
1)🖂	Responsive to communication(s) filed on <u>17 A</u>	nril 2007				
· —	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E					
Disposit	ion of Claims					
·	Claim(s) 1-15 and 24-26 is/are pending in the	annlication				
• / 2	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) 1-15 and 24-26 is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	r.				
	The drawing(s) filed on <u>25 November 2003</u> is/a		cted to by the Examiner.			
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	e Action or form PTO-152.			
Priority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents		tion No			
	3. Copies of the certified copies of the prior	rity documents have been receiv	ved in this National Stage			
	application from the International Bureau	• • •				
* (See the attached detailed Office action for a list	of the certified copies not receive	red.			
Attachmen	• •					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summar Paper No(s)/Mail [
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal				
Pape	er No(s)/Mail Date	6) 🔲 Other:				

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DETAILED ACTION

New Grounds of Rejection

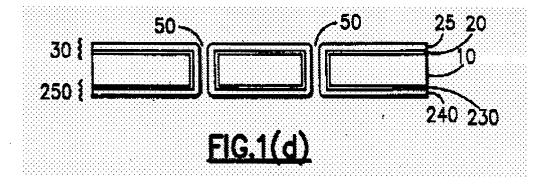
Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-2, 5-15 and 24-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Blackwell et al. (U.S. Patent 5,288,541).

In re claim 1, **Blackwell** discloses a backplane for use in an electro-optic display, the backplane comprising a patterned metal foil 240 (col. 10, lines 10-11) having a plurality of apertures 50 extending therethrough, coated on at least one side with an insulating polymeric material 10 (col. 6 lines 65-67) and having a plurality of thin film electronic devices 280 (col. 3, lines 46-58) provided on the insulating polymeric material (col. 6, line 62 to col. 7, line 65 and FIGS. 1(a)-(g)),



whereby the insulating polymeric material 10 separates the thin film electronic devices from the patterned metal foil 240 (col. 10, lines 2-49 and FIGS. 1(a)-(g)).

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In re claim 2, as applied to claim 1 above, <u>Blackwell</u> discloses all claimed limitations including the limitation wherein the apertures 50 are arranged on a rectangular grid (col. 7, lines 51-62 and FIGS. 1(a)-(g)).

In re claim 5, as applied to claim 1 above, <u>Blackwell</u> discloses all claimed limitations including the limitation wherein the patterned metal foil 240 is coated on both sides with an insulating polymeric material 10 (col. 10, lines 2-14 and FIG. 1(d)).

In re claim 6, as applied to claim 5 above, <u>Blackwell</u> discloses all claimed limitations including the limitation wherein the patterned metal foil 240 is coated on both sides with the same insulating polymeric material 10 (col. 10, lines 2-14 FIG. 1(d)).

In re claim 7, as applied to claim 5 above, <u>Blackwell</u> discloses all claimed limitations including the limitation wherein the patterned metal foil 240 is coated on its two sides with different insulating polymeric materials 10 (col. 10, lines 2-14 and FIG. 1(d)).

In re claim 8, as applied to claim 1 above, <u>Blackwell</u> discloses all claimed limitations including the limitation wherein each of the thin film electronic devices 280 lies entirely within the area of one aperture 50 in the metal foil 240 (col. 10, lines 44-49 and FIG. 1(g)).

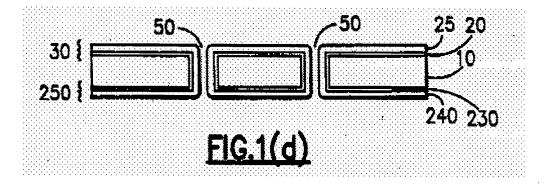
In re claim 9, as applied to claim 1 above, <u>Blackwell</u> discloses all claimed limitations including the limitation wherein each of the thin film electronic devices 280 extends across a plurality of apertures 50 in the metal foil 240 (col. 10, lines 44-49 and FIG. 1(g)).

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In re claim 10, as applied to claim 1 above, **Blackwell** discloses all claimed limitations including an electro-optic display comprising a backplane according to claim 1 (FIGS. 1(a)-(g)).

In re claim 11, as applied to claim 10 above, <u>Blackwell</u> discloses all claimed limitations including the limitation wherein an electro-optic display according to claim 10 comprising an encapsulated electrophoretic electro-optic medium (col. 10, lines 38-49 and FIG. 1(g)).

In re claim 12, **Blackwell** discloses a backplane for use in an electro-optic display, the backplane comprising a metal foil 240 (col. 10, lines 10-11) coated on at least one side with an insulating polymeric material 10 (col. 6, lines 65-67) and having a plurality of thin film electronic devices 280 (col. 3, lines 46-58) provided on the insulating polymeric material 10, the backplane further comprising at least one conductive via 50 extending through the polymeric material 10 and electrically connecting at least one of the thin film electronic devices 280 to the metal foil 240 (col. 6, line 62 to col. 7, line 65 and FIGS. 1(a)-(g)).



In re claim 13, as applied to claim 12 above, <u>Blackwell</u> discloses all claimed limitations including the limitation wherein the metal foil 240 serves as at least one of an

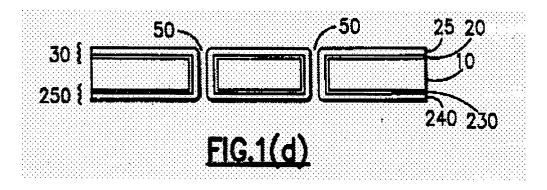
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antenna, an inductor loop, a power plane, a capacitor, a capacitor contact, a pixel electrode, and electromagnetic induction shielding (col. 10, lines 2-14).

In re claim 14, as applied to claim 12 above, **Blackwell** discloses all claimed limitations including an electro-optic display comprising a backplane according to claim 12 (FIGS. 1(a)-(g)).

In re claim 15, as applied to claim 14 above, <u>Blackwell</u> discloses all claimed limitations including the limitation wherein an electro-optic display according to claim 14 in the form a smart card having an electro-optic display thereon, and wherein the metal foil 240 serves to communication between the card and a card reading apparatus (col. 3, lines 4-31 and FIGS. 1(a)-(g)).

In re claim 24, <u>Blackwell</u> discloses an electro-optic display having a metal substrate 40 (col. 8, lines 5-32), the display having a central portion comprising an electro-optic material and means for writing an image on the electro-optic material, and a peripheral portion extending around at least part of the periphery of the central portion, the peripheral portion having a plurality of apertures 50 extending through the metal substrate 40, by means of which apertures the electro-optic display may be stitched to a flexible medium (col. 6, line 62 to col. 7, line 65 and FIGS. 1(a)-(g)).



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In re claim 25, as applied to claim 24 above, **Blackwell** discloses all claimed limitations including the limitation wherein the peripheral portion of such a display is free from the electro-optic material (col. 6, line 62 to col. 7, line 65).

In re claim 26, as applied to claim 24 above, <u>Blackwell</u> discloses all claimed limitations including the limitation wherein the peripheral portion extends completely around the central portion so that the entire periphery of the electro-optic display can be stitched to the flexible medium (FIGS. 1(a)-(g)).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blackwell et al. (U.S. Patent 5,288,541).

In re claims 3 and 4, as applied to claim 1 Paragraph 2 above, <u>Blackwell</u> discloses all the claimed limitations including a backplane comprising a patterned metal foil 240 having a plurality of apertures 50 extending therethrough, wherein the apertures occupying a certain predetermined percentage area of the patterned metal foil (col. 6, line 62 to col. 7, line 65 and FIGS. 1(a)-(g)) but does not explicitly teach or suggest wherein the apertures occupy at least about 30 percent or 60 percent of the area of the patterned metal foil.

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However, there is no evidence indicating the percentage range that the apertures occupy the area of the patterned metal foil is critical and it has been held that it is not inventive to discover the optimum or workable percentage range of a result-effective variable within given prior art conditions by routine experimentation. See MPEP § 2144.05. Note that the specification contains no disclosure of either the critical nature of the claimed dimensions of any unexpected results arising there from. Where patentability is aid to be based upon particular chosen dimensions or upon another variable recited in a claim, the Applicant must show that the chosen dimensions are critical. In re Woodruff, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

Response to Applicants' Amendment and Argument

5. Applicants' arguments with respect to claims 1-15 and 24-26 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the

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advisory action. In no event, however, will the statutory period for reply expire later than

SIX MONTHS from the date of this final action.

Correspondence

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Khiem D. Nguyen whose telephone number is (571) 272-

1865. The examiner can normally be reached on Monday-Friday (8:30 AM - 5:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Matthew S. Smith can be reached on (571) 272-1907. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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K.N. June 18, 2007 BROOK KEBEDE

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